

Release notes for ENDF/B Development n-053.L129
evaluation



April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=5331, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=5331, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      263 TO      335
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=5331, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=5331, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      263
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5331, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      337
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      643
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      674
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      703
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      724
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 734

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 740

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 754

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 766

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 33
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 774

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 782

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 803

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 821

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 54 | RECORD NUMBER | 839 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 55 | RECORD NUMBER | 856 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 56 | RECORD NUMBER | 872 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 57 | RECORD NUMBER | 888 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 58 | RECORD NUMBER | 904 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 59 | RECORD NUMBER | 919 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 60 | RECORD NUMBER | 934 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 61 | RECORD NUMBER | 948 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 62 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 62 | RECORD NUMBER | 961 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 63 | RECORD NUMBER | 974 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 64 | RECORD NUMBER | 987 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 65 | RECORD NUMBER | 999 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 66 | RECORD NUMBER | 1011 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 67 | RECORD NUMBER | 1022 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 68 | RECORD NUMBER | 1033 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT= 91 | RECORD NUMBER | 1044 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT=102 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT=102 | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 1054 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT=103 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT=103 | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 1078 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT=104 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 1093 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 1106 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 3, MT=107 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 3, MT=107 | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1117 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 2 (0): Directory (b)
- | | |
|--|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 2 | |
| SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 1134 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 16 | |
| SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER 1332 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 17 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 17 | |
| SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER 1343 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 22 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 22 | RECORD NUMBER | 1354 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 28 | RECORD NUMBER | 1365 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 32 | RECORD NUMBER | 1376 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 33 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 33 | RECORD NUMBER | 1387 |
| SECTION 4/ 33 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 51 | RECORD NUMBER | 1398 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 52 | RECORD NUMBER | 1426 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 53 | RECORD NUMBER | 1454 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 54 | RECORD NUMBER | 1482 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 55 | RECORD NUMBER | 1510 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 56 | RECORD NUMBER | 1537 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 57 | RECORD NUMBER | 1564 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 58 | RECORD NUMBER | 1591 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 59 | RECORD NUMBER | 1618 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 60 | RECORD NUMBER | 1645 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 61 | RECORD NUMBER | 1669 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 62 | RECORD NUMBER | 1693 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 63 | RECORD NUMBER | 1717 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 64 | RECORD NUMBER | 1741 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 65 | RECORD NUMBER | 1765 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 66 | RECORD NUMBER | 1789 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 67 | RECORD NUMBER | 1813 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 68 | RECORD NUMBER | 1837 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 4, MT= 91 | RECORD NUMBER | 1861 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 16 | RECORD NUMBER | 1886 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 17 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 17 | RECORD NUMBER | 1946 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 22 | RECORD NUMBER | 1977 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 28 | RECORD NUMBER | 2183 |
| SECTION 5/ 28 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 32 | RECORD NUMBER | 2314 |
| SECTION 5/ 32 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 33 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 33 | RECORD NUMBER | 2358 |
| SECTION 5/ 33 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF= 5, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF= 5, MT= 91 | RECORD NUMBER | 2396 |
| SECTION 5/ 91 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF=33, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF=33, MT= 2 | RECORD NUMBER | 2523 |
| SECTION 33/ 2 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF=33, MT= 4 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=5331, MF=33, MT= 4 | RECORD NUMBER | 2613 |
| SECTION 33/ 4 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY

RECORD NUMBER 2685

72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5331, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=5331, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 2695

• **psyche** Warnings:

- Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 129. L = 0 / AT RESONANCE ENERGY 1.60800E+03 EV. THE GAMMA WIDTH 4.80000E-22 DEVIATES TOO MUCH FROM THE AVERAGE 8.67154E-02 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 129. L = 0

AT RESONANCE ENERGY 1.60800E+03 EV. THE GAMMA WIDTH 4.80000E-22 DEVIATES TOO MUCH FROM THE AVERAGE 8.67154E-02 (0): Gamma width

• **recent** Warnings:

- Statistical weight of certain L values were incorrect
0: RRR goof (a)

Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)

=====

Retrieval Criteria-----	MAT
File 2 Minimum Cross Section-	1.0000E-10 (Standard Option)
Reactions with No Background-	Output (Resonance Contribution)
... [609 more lines]	

• **fudge-4.0** Warnings:

- Missing a channel with a particular angular momenta combination
resonances / resolved (Error # 1): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 2.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 3.0 for "capture"
... plus 1 more instances of this message

- Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.29%

- The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + I129): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 ($n + I129$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 ($n[multiplicity:'2'] + I128$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 ($I130 + gamma$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 ($I130 + gamma$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statcal weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re

2. Calculated and tabulated Q values disagree.
reaction label 20: $n[multiplicity:'2'] + I128$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8490993.93057251 eV vs -8847090. eV!

3. Calculated and tabulated Q values disagree.
reaction label 21: $n[multiplicity:'3'] + I127$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15317125.51480103 eV vs -1.56772e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 22: $n + H1 + Te128$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6454495.816360474 eV vs -6806330. eV!

5. Calculated and tabulated Q values disagree.
reaction label 23: $n + H2 + Te127$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13012237.92106628 eV vs -1.32796e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 24: $n + H3 + Te126$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13042846.64779663 eV vs -1.33896e7 eV!

7. Calculated and tabulated Q values disagree.
reaction label 25: $I130 + \gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 6846081.150512695 eV vs 6463390. eV!

8. Calculated and tabulated Q values disagree.
reaction label 26: $n + He4 + Sb125$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2327030.86479187 eV vs -2.6749e6 eV!

9. Calculated and tabulated Q values disagree.
reaction label 27: $H1 + Te129_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -372087.7091369629 eV vs -715531. eV!

10. Calculated and tabulated Q values disagree.
reaction label 28: $H2 + Te128_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4229929.715423584 eV vs -4496210. eV!

11. Calculated and tabulated Q values disagree.
reaction label 29: $H3 + Te127_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6755004.980453491 eV vs -7094450. eV!

12. Calculated and tabulated Q values disagree.
reaction label 30: $He4 + Sb126_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 3887202.279968262 eV vs 3.5512e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided